"ASPHALTING OF BALANCE ROADS AT MUNESHWARA LAYOUT IN WARD NO 03 OF YELAHANKA SATELLITE TOWN SUB DIVISION"

EMB

(Pre-Measurement Sheet and Measurement Sheet)

First & Final Bill

BRUHAT BANGALORE MAHANAGARA PALIKE

ME OF WORK:- Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub ision.

PRE-MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
From	To				(m)	B1	B2	Avg B	(m)		
Item no.02		Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.and as per the directions of the Engineer-in-charge of the work									
Measurements taken on		22/06/22 , 23/06/22									
		Muneshwara Layout									
		4th Cross Road									
		LHS									
		(From South to North)									
0	15		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
15	30		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
30	45		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
45	48.1		Cum	1	3.10	1.10	1.10	1.10	0.90	3.07	
48.1	54.1	**Culvert**	Cum	1	0.00	1.10	1.10	1.10	0.90	0.00	
54.1	69.1		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
69.1	84.1		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
84.1	86.9		Cum	1	2.80	1.10	1.10	1.10	0.90	2.77	
86.9	92.1	**Road Break**	Cum	1	0.00	1.10	1.10	1.10	0.90	0.00	
92.1	107.1		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
107.1	118.4		Cum	1	11.30	1.10	1.10	1.10	0.90	11.19	
118.4	124.8	**Road Break**	Cum	1	0.00	1.10	1.10	1.10	0.90	0.00	
124.8	136.7	**No Work**	Cum	1	0.00	1.10	1.10	1.10	0.90	0.00	
136.7	149.7		Cum	1	13.00	1.10	1.10	1.10	0.90	12.87	
		RHS									
		(From South to North)									
0	15		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
15	30		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
30	45		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
45	60		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
60	75		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
75	84.8		Cum	1	9.80	1.10	1.10	1.10	0.90	9.70	
84.8	103.9	**No Work**	Cum	1	0.00	1.10	1.10	1.10	0.90	0.00	
103.9	112.8		Cum	1	8.90	1.10	1.10	1.10	0.90	8.81	
		2nd Main Road									
		RHS									
		(From East to West)									
0	15		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
15	24.9		Cum	1	9.90	1.10	1.10	1.10	0.90	9.80	
24.9	29.2	**Culvert**	Cum	1	0.00	1.10	1.10	1.10	0.90	0.00	
29.2	44.2		Cum	1	15.00	1.10	1.10	1.10	0.90	14.85	
44.2	55.3		Cum	1	11.10	1.10	1.10	1.10	0.90	10.99	

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
			Cum	1	3.80	1.40	1.40	1.40	0.95	5.05	
		LHS	Cum	1	10.30	1.40	1.40	1.40	0.95	13.70	
		5th Cross Road									
		RHS	Cum	1	4.70	1.40	1.40	1.40	0.95	6.25	
									Total Executed Quantity	589.39	
									Qty Carried to Summary	589.39	

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.04		Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. and as per the directions of the Engineer-in-charge of the work									
Measurements taken on		24/06/22,									
		For Drain									
		Muneshwara Layout									
		4th Cross Road									
		LHS									
		(From South to North)									
0	15		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
15	30		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
30	45		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
45	48.1		Cum	1	3.10	1.10	1.10	1.10	0.15	0.51	
48.1	54.1	**Culvert**	Cum	1	0.00	1.10	1.10	1.10	0.15	0.00	
54.1	69.1		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
69.1	84.1		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
84.1	86.9		Cum	1	2.80	1.10	1.10	1.10	0.15	0.46	
86.9	92.1	**Road Break**	Cum	1	0.00	1.10	1.10	1.10	0.15	0.00	
92.1	107.1		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
107.1	118.4		Cum	1	11.30	1.10	1.10	1.10	0.15	1.86	
118.4	124.8	**Road Break**	Cum	1	0.00	1.10	1.10	1.10	0.15	0.00	
124.8	136.7	**No Work**	Cum	1	0.00	1.10	1.10	1.10	0.15	0.00	
136.7	149.7		Cum	1	13.00	1.10	1.10	1.10	0.15	2.15	
		RHS									
		(From South to North)									
0	15		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
15	30		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
30	45		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
45	60		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
60	75		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
75	84.8		Cum	1	9.80	1.10	1.10	1.10	0.15	1.62	
84.8	103.9	**No Work**	Cum	1	0.00	1.10	1.10	1.10	0.15	0.00	
103.9	112.8		Cum	1	8.90	1.10	1.10	1.10	0.15	1.47	
		2nd Main Road									
		RHS									
		(From East to West)									
0	15		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
15	24.9		Cum	1	9.90	1.10	1.10	1.10	0.15	1.63	
24.9	29.2	**Culvert**	Cum	1	0.00	1.10	1.10	1.10	0.15	0.00	
29.2	44.2		Cum	1	15.00	1.10	1.10	1.10	0.15	2.48	
44.2	55.3		Cum	1	11.10	1.10	1.10	1.10	0.15	1.83	
55.3	59.6	**Culvert**	Cum	1	0.00	1.10	1.10	1.10	0.15	0.00	

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Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
			Cum	1	4.60	1.40	1.40	1.40	0.15	0.97	
			Cum		3.80	1.40	1.40	1.40	0.15	0.80	
		LHS									
			Cum	1	10.30	1.40	1.40	1.40	0.15	2.16	
		5th Cross road									
		RHS	Cum	1	4.70	1.40	1.40	1.40	0.15	0.99	
									Total Executed Quantity	97.84	
									Qty Carried to Summary	97.84	

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.05		Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.and as per the directions of the Engineer-in-charge of the work									
Measurements taken on											
		For Drain	tonne		From Steel Calculation Sheeet					11.89	
		For Culvert	tonne		From Steel Calculation Sheeet					1.61	
									Total Executed Quantity	13.50	
									Qty Carried to Summary	13.50	

Contactor

Assistant Engineer

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ಯಲಹಂಕ ಉಪವಿಭಾಗ ಉಪವಿಭಾಗ
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub division.

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

STEEL CALCULATION

Sl NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
Item no.05	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.and as per the directions of the Engineer-in-charge of the work								
Measurements Taken On;		27/06/22 , 28/06/22							
	Present Bill Measurements								
	For RCC Drain								
	Muneshwara Layout								
	4th Cross Road								
	LHS								
	(From South to North)								
	Main Bars (#12@150 c/c)	1	12	801	801	2.40	1923.20	0.89	1707.44
	Distribution(12-#10)	1	10	12	12	120.20	1442.40	0.62	889.29
	RHS								
	(From South to North)								
	Main Bars (#12@150 c/c)	1	12	625	625	2.40	1499.20	0.89	1331.01
	Distribution(12-#10)	1	10	12	12	93.70	1124.40	0.62	693.23
	2nd Main Road								
	RHS								
	(From East to West)								
	Main Bars (#12@150 c/c)	1	12	613	613	2.40	1472.00	0.89	1306.86
	Distribution(12-#10)	1	10	12	12	92.00	1104.00	0.62	680.66
	LHS								
	(From East to West)								
	Main Bars (#12@150 c/c)	1	12	684	684	2.40	1641.60	0.89	1457.44
	Distribution(12-#10)	1	10	12	12	102.60	1231.20	0.62	759.08
	5th Cross Road								
	RHS								
	From South To North								
	Main Bars (#12@150 c/c)	1	12	667	667	2.40	1600.00	0.89	1420.50

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-105

Contactor

Assistant Engineer

Assistant exicutive Engineer

SI NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
	5th Cross road								
	RHS								
	12# @140 c/c main bars	1	12	34	34	5.10	171.21	0.89	152.01
	10# @170c/c Distrubution bars	1	10	26	26	4.70	119.85	0.62	73.89
							QTY IN KG'S		1614.93
							QTY IN TONNE		1.61
							TOTAL QTY IN KG'S		13501.17
							TOTAL QTY IN TONNE		13.50

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Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage om	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.09		Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. Technical Specifications.and as per the directions of the Engineer-in-charge of the work								
easurements taken on		11/07/22									
		Muneshwara Layout									
		2nd main Road									
		East to West									
3	12		Cum	1	9.00	1.20	1.30	1.25	0.23	2.59	
12.7	18		Cum	1	5.30	1.50	1.50	1.50	0.23	1.83	
28	31		Cum	1	3.00	1.30	1.30	1.30	0.23	0.90	
48	50		Cum	1	2.00	2.00	2.00	2.00	0.23	0.92	
		5th cross Road									
		South to North									
6	9		Cum	1	3.00	1.10	1.20	1.15	0.23	0.79	
18.3	22		Cum	1	3.70	1.30	1.40	1.35	0.23	1.15	
27	29		Cum	1	2.00	1.40	1.30	1.35	0.23	0.62	
38	41		Cum	1	3.00	1.50	1.50	1.50	0.23	1.04	
43	48		Cum	1	5.00	0.75	0.75	0.75	0.23	0.86	
52	58		Cum	1	6.00	1.60	1.60	1.60	0.23	2.21	
65	72		Cum	1	7.00	1.40	1.40	1.40	0.23	2.25	
		2nd Main 3rd cross Road									
		South to North									
12	18		Cum	1	6.00	0.75	0.75	0.75	0.23	1.04	
		2nd cross Road									
		North to South									
2	13				11.00	2.10	2.10	2.10	0.23	5.31	
		2nd Main 1st cross Road									
		South to North									
3.3	12		Cum	1	8.70	1.80	1.80	1.80	0.23	3.60	
		4th cross Road									
		South to North									
4	6		Cum	1	2.00	1.40	1.40	1.40	0.23	0.64	
13	18		Cum	1	5.00	1.50	1.50	1.50	0.23	1.73	
31	41		Cum	1	10.00	1.60	1.60	1.60	0.23	3.68	
47	50		Cum	1	3.00	1.20	1.30	1.25	0.23	0.86	
64	70		Cum	1	6.00	0.90	0.90	0.90	0.23	1.24	
86	90		Cum	1	4.00	1.80	1.80	1.80	0.23	1.66	
102	109		Cum	1	7.00	1.60	1.60	1.60	0.23	2.58	

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
123	125		Cum	1	2.00	1.90	1.90	1.90	0.23	0.87	
128	133		Cum	1	5.00	2.00	2.00	2.00	0.23	2.30	
		3rd cross Road									
		South to North									
4	12		Cum	1	8.00	1.60	1.60	1.60	0.23	2.94	
18	23		Cum	1	5.00	1.80	1.80	1.80	0.23	2.07	
									Total Executed Quantity	45.68	
									Qty Carried to Summary	45.68	

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Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.10		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density Technical Specifications, and as per the directions of the Engineer-in-charge of the work									
Measurements taken on		15/07/22									
		Muneshwara Layout									
		2nd main Road									
		East to West									
3	12		Cum	1	9.00	1.20	1.30	1.25	0.23	2.59	
12.7	18		Cum	1	5.30	1.50	1.50	1.50	0.23	1.83	
28	31		Cum	1	3.00	1.30	1.30	1.30	0.23	0.90	
48	50		Cum	1	2.00	2.00	2.00	2.00	0.23	0.92	
		5th cross Road									
		South to North									
6	9		Cum	1	3.00	1.10	1.20	1.15	0.23	0.79	
18.3	22		Cum	1	3.70	1.30	1.40	1.35	0.23	1.15	
27	29		Cum	1	2.00	1.40	1.30	1.35	0.23	0.62	
38	41		Cum	1	3.00	1.50	1.50	1.50	0.23	1.04	
43	48		Cum	1	5.00	0.75	0.75	0.75	0.23	0.86	
52	58		Cum	1	6.00	1.60	1.60	1.60	0.23	2.21	
65	72		Cum	1	7.00	1.40	1.40	1.40	0.23	2.25	
		2nd Main 3rd cross Road									
		South to North									
12	18		Cum	1	6.00	0.75	0.75	0.75	0.23	1.04	
		2nd cross Road									
		North to South									
2	13		Cum	1	11.00	2.10	2.10	2.10	0.23	5.31	
		2nd Main 1st cross Road									
		South to North									
3.3	12		Cum	1	8.70	1.80	1.80	1.80	0.23	3.69	
		4th cross Road									
		South to North									
4	6		Cum	1	2.00	1.40	1.40	1.40	0.23	0.64	
13	18		Cum	1	5.00	1.50	1.50	1.50	0.23	1.73	
31	41		Cum	1	10.00	1.60	1.60	1.60	0.23	3.68	
47	50		Cum	1	3.00	1.20	1.30	1.25	0.23	0.86	
64	70		Cum	1	6.00	0.90	0.90	0.90	0.23	1.24	
86	90		Cum	1	4.00	1.80	1.80	1.80	0.23	1.66	
102	109		Cum	1	7.00	1.60	1.60	1.60	0.23	2.58	

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
123	125		Cum	1	2.00	1.90	1.90	1.90	0.23	0.87	
128	133		Cum	1	5.00	2.00	2.00	2.00	0.23	2.30	
		3rd cross Road									
		South to North									
4	12		Cum	1	8.00	1.60	1.60	1.60	0.23	2.94	
18	23		Cum	1	5.00	1.80	1.80	1.80	0.23	2.07	
									Total Executed Quantity	45.68	
									Qty Carried to Summary	45.68	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage from	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.11		Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.and as per the directions of the Engineer-in-charge of the work									
Measurements taken on		19/07/22									
		Muneshwara Layout									
		2nd main Road									
		East to West									
3	12		Sqm	1	9.00	1.20	1.30	1.25		11.25	
12.7	18		Sqm	1	5.30	1.50	1.50	1.50		7.95	
28	31		Sqm	1	3.00	1.30	1.30	1.30		3.90	
48	50		Sqm	1	2.00	2.00	2.00	2.00		4.00	
		5th cross Road									
		South to North									
6	9		Sqm	1	3.00	1.10	1.20	1.15		3.45	
18.3	22		Sqm	1	3.70	1.30	1.40	1.35		5.00	
27	29		Sqm	1	2.00	1.40	1.30	1.35		2.70	
38	41		Sqm	1	3.00	1.50	1.50	1.50		4.50	
43	48		Sqm	1	5.00	0.75	0.75	0.75		3.75	
52	58		Sqm	1	6.00	1.60	1.60	1.60		9.60	
65	72		Sqm	1	7.00	1.40	1.40	1.40		9.80	
		2nd Main 3rd cross Road									
		South to North									
12	18		Sqm	1	6.00	0.75	0.75	0.75		4.50	
		2nd cross Road									
		North to South									
2	13		Sqm	1	11.00	2.10	2.10	2.10		23.10	
		2nd Main 1st cross Road									
		South to North									
3.3	12		Sqm	1	8.70	1.80	1.80	1.80		15.66	
		4th cross Road									
		South to North									
4	6		Sqm	1	2.00	1.40	1.40	1.40		2.80	
13	18		Sqm	1	5.00	1.50	1.50	1.50		7.50	
31	41		Sqm	1	10.00	1.60	1.60	1.60		16.00	
47	50		Sqm	1	3.00	1.20	1.30	1.25		3.75	
64	70		Sqm	1	6.00	0.90	0.90	0.90		5.40	
86	90		Sqm	1	4.00	1.80	1.80	1.80		7.20	
102	109		Sqm	1	7.00	1.60	1.60	1.60		11.20	
123	125		Sqm	1	2.00	1.90	1.90	1.90		3.80	
128	133		Sqm	1	5.00	2.00	2.00	2.00		10.00	

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
		3rd cross Road									
		South to North									
4	12										
18	23		Sqm	1	8.00	1.60	1.60	1.60		12.80	
			Sqm	1	5.00	1.80	1.80	1.80		9.00	
									Total Executed Quantity	198.61	
									Qty Carried to Summary	198.61	

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET

FIRST AND FINAL BILL

ainage

	To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
n no.12		Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification Technical Specifications and as per the directions of the Engineer-in-charge of the work									
urements ken on		21/07/22									
		Muneshwara Layout									
		2nd main Road									
		East to West									
	12										
	18		Sqm	1	9.00	1.20	1.30	1.25		11.25	
	31		Sqm	1	5.30	1.50	1.50	1.50		7.95	
	50		Sqm	1	3.00	1.30	1.30	1.30		3.90	
			Sqm	1	2.00	2.00	2.00	2.00		4.00	
		5th cross Road									
		South to North									
	9										
3	22		Sqm	1	3.00	1.10	1.20	1.15		3.45	
	29		Sqm	1	3.70	1.30	1.40	1.35		5.00	
	41		Sqm	1	2.00	1.40	1.30	1.35		2.70	
	48		Sqm	1	3.00	1.50	1.50	1.50		4.50	
	58		Sqm	1	5.00	0.75	0.75	0.75		3.75	
	72		Sqm	1	6.00	1.60	1.60	1.60		9.60	
			Sqm	1	7.00	1.40	1.40	1.40		9.80	
		2nd Main 3rd cross Road									
		South to North									
2	18		Sqm	1	6.00	0.75	0.75	0.75		4.50	
		2nd cross Road									
		North to South									
2	13		Sqm	1	11.00	2.10	2.10	2.10		23.10	
		2nd Main 1st cross Road									
		South to North									
3.3	12		Sqm	1	8.70	1.80	1.80	1.80		15.66	
		4th cross Road									
		South to North									
4	6		Sqm	1	2.00	1.40	1.40	1.40		2.80	
13	18		Sqm	1	5.00	1.50	1.50	1.50		7.50	
31	41		Sqm	1	10.00	1.60	1.60	1.60		16.00	
47	50		Sqm	1	3.00	1.20	1.30	1.25		3.75	
64	70		Sqm	1	6.00	0.90	0.90	0.90		5.40	
86	90		Sqm	1	4.00	1.80	1.80	1.80		7.20	
102	109		Sqm	1	7.00	1.60	1.60	1.60		11.20	
123	125		Sqm	1	2.00	1.90	1.90	1.90		3.80	
128	133		Sqm	1	5.00	2.00	2.00	2.00		10.00	

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
n	To				(m)	B1	B2	Avg B	(m)		
	64										
	86		Sqm	1	14.00	2.00	2.00	2.00		28.00	
	102		Sqm	1	16.00	2.20	2.20	2.20		35.20	
	123		Sqm	1	12.00	1.80	1.80	1.80		21.60	
	131		Sqm	1	14.00	1.90	1.90	1.90		26.60	
	139		Sqm	1	6.00	2.00	2.00	2.00		12.00	
			Sqm	1	5.00	1.75	1.75	1.75		8.75	
	13										
	22.2		Sqm	1	11.00	1.20	1.20	1.20		13.20	
			Sqm	1	4.20	1.10	1.10	1.10		4.62	
									Total Executed Quantity	727.42	
									Qty Carried to Summary	727.42	

3rd Petrol Road
South to North

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.14		Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.Technical Specifications and as per the directions of the Engineer-in-charge of the work									
Measurements taken on		22/07/22									
		Muneshwara Layout									
		2nd main Road									
		East to West									
0	15		Sqm	1	15.00	6.35	5.45	5.90		88.50	
15	30		Sqm	1	15.00	5.45	5.40	5.43		81.38	
30	45		Sqm	1	15.00	5.40	4.20	4.80		72.00	
45	60		Sqm	1	15.00	4.20	4.60	4.40		66.00	
60	75		Sqm	1	15.00	4.60	4.30	4.45		66.75	
75	90		Sqm	1	15.00	4.30	3.55	3.93		58.88	
90	104		Sqm	1	14.00	3.55	4.10	3.83		53.55	
		5th cross Road									
		South to North									
0	15		Sqm	1	15.00	4.45	4.30	4.38		65.63	
15	30		Sqm	1	15.00	4.30	5.00	4.65		69.75	
30	45		Sqm	1	15.00	5.00	3.60	4.30		64.50	
45	60		Sqm	1	15.00	3.60	3.60	3.60		54.00	
60	75		Sqm	1	15.00	3.60	4.00	3.80		57.00	
75	90		Sqm	1	15.00	4.00	3.50	3.75		56.25	
90	105		Sqm	1	15.00	3.50	3.90	3.70		55.50	
105	120		Sqm	1	15.00	3.90	3.95	3.93		58.88	
120	128.4		Sqm	1	8.40	3.95	3.60	3.78		31.71	
		2nd Main 3rd cross Road									
		South to North									
0	15		Sqm	1	15.00	3.60	4.20	3.90		58.50	
15	21.2		Sqm	1	6.20	4.20	3.20	3.70		22.94	
		2nd cross Road									
		North to South									
0	15		Sqm	1	15.00	3.70	4.10	3.90		58.50	
15	20.4		Sqm	1	5.40	2.80	2.80	2.80		15.12	
		2nd Main 1st cross Road									
		South to North									
0	15		Sqm	1	15.00	4.10	4.10	4.10		61.50	
15	21.2		Sqm	1	6.20	4.10	4.20	4.15		25.73	
		4th cross Road									
		South to North									
0	15		Sqm	1	15.00	5.20	5.10	5.15		77.25	
15	30		Sqm	1	15.00	5.10	4.90	5.00		75.03	
30	45		Sqm	1	15.00	4.90	4.80	4.85		72.78	
45	60		Sqm	1	15.00	4.80	4.00	4.40		66.00	

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
	75										
	90		Sqm	1	15.00	4.00	4.20	4.10		61.50	
	105		Sqm	1	15.00	4.20	4.20	4.20		63.00	
5	120		Sqm	1	15.00	4.20	4.50	4.35		65.25	
0	135		Sqm	1	15.00	4.50	3.80	4.15		62.25	
5	147.9		Sqm	1	15.00	3.80	4.20	4.00		60.00	
			Sqm	1	12.90	4.20	4.80	4.50		58.05	
	15										
5	30		Sqm	1	15.00	5.30	4.20	4.75		71.25	
0	45.3		Sqm	1	15.00	4.20	4.20	4.20		63.00	
			Sqm	1	15.30	4.20	4.90	4.55		69.62	
									Total Executed Quantity	2107.53	
									Qty Carried to Summary	2107.53	

3rd Cross Road
South to North

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET
FIRST AND FINAL BILL

ainage		Description of Item	Unit	No	Length	Breadth			Depth	Quantity	Remarks
n	To				(m)	B1	B2	Avg B	(m)		
m no.15		Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification Technical Specifications and as per the directions of the Engineer-in-charge of the work									
surements aken on		26/07/22									
		Muneshwara Layout									
		2nd main Road									
		East to West									
	15		Sqm	1	15.00	6.35	5.45	5.90		88.50	
5	30		Sqm	1	15.00	5.45	5.40	5.43		81.38	
0	45		Sqm	1	15.00	5.40	4.20	4.80		72.00	
5	60		Sqm	1	15.00	4.20	4.60	4.40		66.00	
0	75		Sqm	1	15.00	4.60	4.30	4.45		66.75	
5	90		Sqm	1	15.00	4.30	3.55	3.93		58.88	
0	104		Sqm	1	14.00	3.55	4.10	3.83		53.55	
		5th cross Road									
		South to North									
0	15		Sqm	1	15.00	4.45	4.30	4.38		65.63	
5	30		Sqm	1	15.00	4.30	5.00	4.65		69.75	
0	45		Sqm	1	15.00	5.00	3.60	4.30		64.50	
5	60		Sqm	1	15.00	3.60	3.60	3.60		54.00	
0	75		Sqm	1	15.00	3.60	4.00	3.80		57.00	
5	90		Sqm	1	15.00	4.00	3.50	3.75		56.25	
0	105		Sqm	1	15.00	3.50	3.90	3.70		55.50	
05	120		Sqm	1	15.00	3.90	3.95	3.93		58.88	
20	128.4		Sqm	1	8.40	3.95	3.60	3.78		31.71	
		2nd Main 3rd cross Road									
		South to North									
0	15		Sqm	1	15.00	3.60	4.20	3.90		58.50	
15	21.2		Sqm	1	6.20	4.20	3.20	3.70		22.94	
		2nd cross Road									
		North to South									
0	15		Sqm	1	15.00	3.70	4.10	3.90		58.50	
15	20.4		Sqm	1	5.40	2.80	2.80	2.80		15.12	
		2nd Main 1st cross Road									
		South to North									
0	15		Sqm	1	15.00	4.10	4.10	4.10		61.50	
15	21.2		Sqm	1	6.20	4.10	4.20	4.15		25.73	
		4th cross Road									
		South to North									
0	15		Sqm	1	15.00	5.20	5.10	5.15		77.25	
15	30		Sqm	1	15.00	5.10	4.90	5.00		75.03	
30	45		Sqm	1	15.00	4.90	4.80	4.85		72.78	
45	60		Sqm	1	15.00	4.80	4.00	4.40		66.00	

Contactor

Assistant Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET

FIRST AND FINAL BILL

hainage m	hainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
	75		Sqm	1	15.00	4.00	4.20	4.10		61.50	
	90		Sqm	1	15.00	4.20	4.20	4.20		63.00	
	105		Sqm	1	15.00	4.20	4.50	4.35		65.25	
5	120		Sqm	1	15.00	4.50	3.80	4.15		62.25	
0	135		Sqm	1	15.00	3.80	4.20	4.00		60.00	
5	147.9		Sqm	1	12.90	4.20	4.80	4.50		58.05	
		3rd cross Road									
		South to North									
	15		Sqm								
5	30			1	15.00	5.30	4.20	4.75		71.25	
0	45.3			1	15.00	4.20	4.20	4.20		63.00	
				1	15.30	4.20	4.90	4.55		69.62	
									Total Executed Quantity	2107.53	
									Qty Carried to Summary	2107.53	

Contactor

Assistant-Engineer

Assistant exicutive Engineer

PRE-MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.18		Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3) and as per the directions of the Engineer-in-charge of the work									
Measurements taken on		23/06/22, 24/06/22, 18/07/22, 22/07/22									
		Qty Vide From item No 02+09	Cum							635.07	
									Total Executed Quantity		635.07	
									Qty Carried to Summary		635.07	

Contactor

Assistant Engineer

Assistant executive Engineer

PRE-MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Remarks
Item no.19		Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km nd as per the directions of the Engineer-in-charge of the work									
easurements taken on											
		Qty Vide From item No 17	tkm		635.07	1.28				812.88	
									Total Executed Quantity	812.88	
									Qty Carried to Summary	812.88	

Contactor

Assistant Engineer

Assistant Executive Engineer

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಕ.ಜ.ಎ.ಪ. ಬೆಂಗಳೂರು-106

"ASPHALTING OF BALANCE ROADS AT MUNESHWARA LAYOUT IN WARD NO 03 OF YELAHANKA SATELLITE TOWN SUB DIVISION"

Measurement Sheet

First & Final Bill

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Asphalting of Balance roads at Muneshwara layout in ward No-03 of Yelahanka satellite town sub division.

Measurements Taken On :

MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.
Item no.01		Removing and refixing stone slabs of drains and pointing in CM (1:3) and as per the directions of the Engineer-in-charge of the work										
Measurements taken on		07/07/22 , 08/07/22										
		Muneshwara Layout										
		4th Cross Road										
		LHS										
		(From South to North)										
0	76.4	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
76.4	85.9		Sqm	1	9.50	0.90	0.90	0.90		8.55		
85.9	92.1	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
92.1	107.1		Sqm	1	15.00	0.90	0.90	0.90		13.50		
107.1	118.4		Sqm	1	11.30	0.90	0.90	0.90		10.17		
118.4	144.2	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
144.2	147.8		Sqm	1	3.60	0.90	0.90	0.90		3.24		
147.8	149.7	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
		RHS										
		(From South to North)										
0	9.5		Sqm	1	9.50	0.90	0.90	0.90		8.55		
9.5	22.1	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
22.1	29.1		Sqm	1	7.00	0.90	0.90	0.90		6.30		
29.1	35.4	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
35.4	50.4		Sqm	1	15.00	0.90	0.90	0.90		13.50		
50.4	65.4		Sqm	1	15.00	0.90	0.90	0.90		13.50		
65.4	67.5		Sqm	1	2.10	0.90	0.90	0.90		1.89		
67.5	112.8	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
		2nd Main Road										
		RHS										
		(From East to West)										
0	42.2	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
42.2	55.3		Sqm	1	13.10	0.90	0.90	0.90		11.79		
55.3	59.6	Culvert	Sqm	1	0.00	0.90	0.90	0.90		0.00		
59.6	72		Sqm	1	12.40	0.90	0.90	0.90		11.16		
72	88.1	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
88.1	101.8		Sqm	1	13.70	0.90	0.90	0.90		12.33		
101.8	104.4	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
		LHS										
		(From East to West)										
0	10.3		Sqm	1	10.30	0.90	0.90	0.90		9.27		
10.3	13	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
13	14.2		Sqm	1	1.20	0.90	0.90	0.90		1.08		
14.2	37.3	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
37.3	52.3		Sqm	1	15.00	0.90	0.90	0.90		13.50		
52.3	59.9		Sqm	1	7.60	0.90	0.90	0.90		6.84		
59.9	61.8	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
61.8	76.8		Sqm	1	15.00	0.90	0.90	0.90		13.50		
76.8	91.8		Sqm	1	15.00	0.90	0.90	0.90		13.50		

Assistant Engineer

Assistant exicutive Engineer

MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.
91.8	102.6		Sqm	1	10.80	0.90	0.90	0.90		9.72		
		5th Cross Road										
		RHS										
		South To North										
0	34.7	**CC Slab**	Sqm	1	0.00	0.90	0.90	0.90		0.00		
34.7	49.7		Sqm	1	15.00	0.90	0.90	0.90		13.50		
49.7	56.1		Sqm	1	6.40	0.90	0.90	0.90		5.76		
56.1	64	**CC Slab**	Sqm	1	0.00	0.90	0.90	0.90		0.00		
64	68.9		Sqm	1	4.90	0.90	0.90	0.90		4.41		
68.9	93.2	**CC Slab**	Sqm	1	0.00	0.90	0.90	0.90		0.00		
93.2	104.7		Sqm	1	11.50	0.90	0.90	0.90		10.35		
		2nd Main 1st Cross Road										
		LHS										
		South To North										
0	5.3		Sqm	1	5.30	0.90	0.90	0.90		4.77		
5.3	8.7	**CC Slab**	Sqm	1	0.00	0.90	0.90	0.90		0.00		
8.7	21.3		Sqm	1	12.60	0.90	0.90	0.90		11.34		
		2nd Cross Road										
		RHS										
		South to North										
0	17.8	**CC Slab**	Sqm	1	0.00	0.90	0.90	0.90		0.00		
17.8	20.4		Sqm	1	2.60	0.90	0.90	0.90		2.34		
		Total Executed Quantity								234.36		
		Tender Quantity								94.14		
		Now to be paid Quantity								234.36		
		Quantity Lim ited To								94.14	116.75	10991.00

Item no.02 Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work and as per the directions of the Engineer-in-charge of the work

		Cum										
		Vide Total executed Quantity from premeasuremet Page no.								589.39		
		Total Executed Quantity								589.39		
		Tender Quantity								557.94		
		Now to be paid Quantity								589.39		
		Quantity Lim ited To								557.94	214.63	119751.00

Item no.03 Providing One line dressing to granite stone slab/ granite stone masonry as per specification and as per the directions of the Engineer-in-charge of the work

Measurements taken on 11/07/22 , 12/07/22

		Muneshwara Layout										
		4th Cross Road										
		LHS										
		(From South to North)										
0	76.4	**CC Slab**	Sqm	1	0.00	0.90	0.90	0.90		0.00		
76.4	85.9		Sqm	1	9.50	0.90	0.90	0.90		8.55		
85.9	92.1	**CC Slab**	Sqm	1	0.00	0.90	0.90	0.90		0.00		

Contactor

Assistant Engineer

Assistant exicutive Engineer

MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quan		Amount in RS.
		South To North										
0	5.3											
5.3	8.7	CC Slab	Sqm	1	5.30	0.90	0.90	0.90		4.77		
8.7	21.3		Sqm	1	0.00	0.90	0.90	0.90		0.00		
			Sqm	1	12.60	0.90	0.90	0.90		11.34		
		2nd Cross Road										
		RHS										
		South to North										
0	17.8	CC Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		
17.8	20.4		Sqm	1	2.60	0.90	0.90	0.90		2.34		
		Total Executed Quantity								234.36		
		Tender Quantity								94.14		
		Now to be paid Quantity								234.36		
		Quantity Lim ited To								94.14	997.41	93897.00

Item no.04 Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. and as per the directions of the Engineer-in-charge of the work

			Cum									
		Vide Total executed Quantity from premeasuremet Page no.								97.84		
		Total Executed Quantity								97.84		
		Tender Quantity								92.64		
		Now to be paid Quantity								97.84		
		Quantity Limited to								92.64	6637.23	614873.00

Item no.05 Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) and as per the

Measurements taken on 28|06|22 , 29|06|22 , 30|06|22

		Bottom Raft										
		Muneshwara Layout										
		4th Cross Road										
		LHS										
		(From South to North)										
0	15		Cum	1	15.00	0.90	0.90	0.90	0.15	2.03		
15	30		Cum	1	15.00	0.90	0.90	0.90	0.15	2.03		
30	45		Cum	1	15.00	0.90	0.90	0.90	0.15	2.03		
45	48.1		Cum	1	3.10	0.90	0.90	0.90	0.15	0.42		
48.1	54.1	Culvert	Cum	1	0.00	0.90	0.90	0.90	0.15	0.00		
54.1	69.1		Cum	1	15.00	0.90	0.90	0.90	0.15	2.03		
69.1	84.1		Cum	1	15.00	0.90	0.90	0.90	0.15	2.03		
84.1	86.9		Cum	1	2.80	0.90	0.90	0.90	0.15	0.38		
86.9	92.1	Road Break	Cum	1	0.00	0.90	0.90	0.90	0.15	0.00		
92.1	107.1		Cum	1	15.00	0.90	0.90	0.90	0.15	2.03		
107.1	118.4		Cum	1	11.30	0.90	0.90	0.90	0.15	1.53		
118.4	124.8	Road Break	Cum	1	0.00	0.90	0.90	0.90	0.15	0.00		
124.8	136.7	No Work	Cum	1	0.00	0.90	0.90	0.90	0.15	0.00		
136.7	149.7		Cum	1	13.00	0.90	0.90	0.90	0.15	1.76		

Assistant Engineer

Assistant exicutive Engineer

MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	R.R.	t in
			Cum	1	4.60	1.20	1.20	1.20	0.20	1.10		
			Cum	1	3.80	1.20	1.20	1.20	0.20	0.91		
		LHS										
			Cum	1	10.30	1.20	1.20	1.20	0.20	2.47		
		5th Cross road										
		RHS										
			Cum	1	4.70	1.20	1.20	1.20	0.20	1.13		
		Side Wall										
		4th Cross Road										
		LHS										
			Cum	2	5.90	0.25	0.25	0.25	0.60	1.77		
		2nd Main Road										
		RHS										
			Cum	2	4.30	0.25	0.25	0.25	0.60	1.29		
			Cum	2	4.60	0.25	0.25	0.25	0.60	1.38		
			Cum	2	3.80	0.25	0.25	0.25	0.60	1.14		
			Cum	2	10.30	0.25	0.25	0.25	0.60	3.09		
		5th Cross road										
		RHS	Cum	2	4.70	0.25	0.25	0.25	0.60	1.41		
									Sub Total	18.14		
		Total Executed Quantity								191.46		
		Tender Quantity								181.05		
		Now to be paid Quantity								191.46		
		Quantity Limited to								181.05	7579.74	1372312.00
Item no.06		Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.and as per the directions of the Engineer-in-charge of the work										
			Tonne									
		Vide Total executed Quantity from premeasuremet Page no.								13.50		
										13.50		
		Total Executed Qty								13.08		
		Tender Quantity								13.50		
		Now to be paid Quantity								13.08	96673.74	1264493.00
		Quantity Limited to										
Item no.07		Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,Technical Specifications.and as per the directions of the Engineer-in-charge of the work										
Measurements taken on		12/07/22										
		Muneshwara Layout										
		4th Cross Road										
		LHS										
		(From South to North)										
0	15		Sqm	1	15.00	0.90	0.90	0.90		13.50		
15	30		Sqm	1	15.00	0.90	0.90	0.90		13.50		
30	45		Sqm	1	15.00	0.90	0.90	0.90		13.50		
45	48		Sqm	1	3.00	0.90	0.90	0.90		2.70		
48	54.1	Covers	Sqm	1	0.00	0.90	0.90	0.90		0.00		
54.1	69.1		Sqm	1	15.00	0.90	0.90	0.90		13.50		
69.1	76.4		Sqm	1	7.30	0.90	0.90	0.90		6.57		
76.4	85.9	Bs Slab	Sqm	1	0.00	0.90	0.90	0.90		0.00		

Assistant Engineer

Assistant exicutive Engineer

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Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.
Item no.09		Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1 5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. Technical Specifications and as per the directions of the Engineer-in-charge of the work										
			Cum									
		Vide Total executed Quantity from premeasuremet Page no.								45.68		
		Total Executed Quantity								45.68		
		Tender Quantity								45.68		
		Now To be Paid Quantity								45.68	75.00	3426.00
Item no.10		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density Technical Specifications. and as per the directions of the Engineer-in-charge of the work										
			Cum									
		Vide Total executed Quantity from premeasuremet Page no.								45.68		
		Total Executed Quantity								45.68		
		Tender Quantity								45.68		
		Now To be Paid Quantity								45.68	2762.44	126186.00
Item no.11		Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.and as per the										
			Sqm									
		Vide Total executed Quantity from premeasuremet Page no.								198.61		
		Total Executed Quantity								198.61		
		Tender Quantity								198.61		
		Now To be Paid Quantity								198.61	23.35	4638.00
Item no.12		Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification Technical Specifications.and as per the directions of the Engineer-in-charge of the work										
			Sqm									
		Vide Total executed Quantity from premeasuremet Page no.								727.42		
		Total Executed Quantity								727.42		
		Tender Quantity								727.48		
		Now To be Paid Quantity								727.42	50.77	36932.00
Item no.13		Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505										
			Cum									
		Vide Total executed Quantity from premeasuremet Page no.								36.37		
		Total Executed Quantity								36.37		
		Tender Quantity								36.37		
		Now To be Paid Quantity								36.37	11410.92	415027.00
Item no.14		Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.Technical Specifications.and as per the directions of the Engineer-in-charge of the work										
			Sqm									
		Vide Total executed Quantity from premeasuremet Page no.								2107.53		

Assistant Engineer

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ಯಲಹಂಕ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-10

MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.
		Total Executed Quantity								**2107.53**		
		Tender Quantity								**2115.50**		
		Now To be Paid Quantity								**2107.53**	**5.56**	**11718.00**
Item no.15		Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification Technical Specifications.and as per the directions of the Engineer-in-charge of the work										
			Sqm									
		Vide Total executed Quantity from premeasuremet Page no.										
		Total Executed Quantity								**2107.53**		
		Tender Quantity								**2107.53**		
		Now To be Paid Quantity								**2115.50**		
Item no.16		Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects Technical Specifications.and as per the directions of the Engineer-in-charge of the work										
Measurements taken on		26/07/22										
		Muneshwara Layout										
		2nd main Road										
		East to West										
0	15		Cum	1	15.00	6.35	5.45	5.90	0.04	3.54		
15	30		Cum	1	15.00	5.45	5.40	5.43	0.04	3.26		
30	45		Cum	1	15.00	5.40	4.20	4.80	0.04	2.88		
45	60		Cum	1	15.00	4.20	4.60	4.40	0.04	2.64		
60	75		Cum	1	15.00	4.60	4.30	4.45	0.04	2.67		
75	90		Cum	1	15.00	4.30	3.55	3.93	0.04	2.37		
90	104		Cum	1	14.00	3.55	4.10	3.83	0.04	2.14		
		5th cross Road										
		South to North										
0	15		Cum	1	15.00	4.45	4.30	4.38	0.04	2.63		
15	30		Cum	1	15.00	4.30	5.00	4.65	0.04	2.79		
30	45		Cum	1	15.00	5.00	3.60	4.30	0.04	2.58		
45	60		Cum	1	15.00	3.60	3.60	3.60	0.04	2.16		
60	75		Cum	1	15.00	3.60	4.00	3.80	0.04	2.28		
75	90		Cum	1	15.00	4.00	3.50	3.75	0.04	2.25		
90	105		Cum	1	15.00	3.50	3.90	3.70	0.04	2.22		
105	120		Cum	1	15.00	3.90	3.95	3.93	0.04	2.36		
120	128.4		Cum	1	8.40	3.95	3.60	3.78	0.04	1.27		
		2nd Main 3rd cross Road										
		South to North										
0	15		Cum	1	15.00	3.60	4.20	3.90	0.04	2.34		
15	21.2		Cum	1	6.20	4.20	3.20	3.70	0.04	0.92		
		2nd cross Road										
		North to South										
0	15		Cum	1	15.00	3.70	4.10	3.90	0.04	2.34		
15	20.4		Cum	1	5.40	2.80	2.80	2.80	0.04	0.60		
		2nd Main 1st cross Road										
		South to North										
0	15		Cum	1	15.00	4.10	4.10	4.10	0.04	2.46		

Contractor

Assistant Engineer

Assistant exicutive Engineer

MEASUREMENT SHEET
FIRST AND FINAL BILL

ainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.
21.2		Cum	1	6.20	4.10	4.20	4.15	0.04	1.03		
	4th cross Road										
	South to North										
15		Cum	1	15.00	5.20	5.10	5.15	0.04	3.09		
30		Cum	1	15.00	5.10	4.90	5.00	0.04	3.00		
45		Cum	1	15.00	4.90	4.80	4.85	0.04	2.91		
60		Cum	1	15.00	4.80	4.00	4.40	0.04	2.64		
75		Cum	1	15.00	4.00	4.20	4.10	0.04	2.46		
90		Cum	1	15.00	4.20	4.20	4.20	0.04	2.52		
105		Cum	1	15.00	4.20	4.50	4.35	0.04	2.61		
120		Cum	1	15.00	4.50	3.80	4.15	0.04	2.49		
135		Cum	1	15.00	3.80	4.20	4.00	0.04	2.40		
147.9		Cum	1	12.90	4.20	4.80	4.50	0.04	2.32		
	3rd cross Road										
	South to North										
15		Cum	1	15.00	5.30	4.20	4.75	0.04	2.85		
30		Cum	1	15.00	4.20	4.20	4.20	0.04	2.52		
45.3		Cum	1	15.30	4.20	4.90	4.55	0.04	2.78		
	Total Executed Quantity								**84.32**		
	Tender Quantity								**84.62**		
	Now To be Paid Quantity								**84.32**	**13305.62**	**1121913.00**
tem no.17	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. nd as per the directions of the Engineer-in-charge of the work										
easurements taken on	29/07/22										
	Muneshwara Layout										
	2nd main Road										
	East to West										
0 15		Sqm	2	15.00	0.10	0.10	0.10		3.00		
15 30		Sqm	2	15.00	0.10	0.10	0.10		3.00		
30 45		Sqm	2	15.00	0.10	0.10	0.10		3.00		
45 60		Sqm	2	15.00	0.10	0.10	0.10		3.00		
60 75		Sqm	2	15.00	0.10	0.10	0.10		3.00		
75 90		Sqm	2	15.00	0.10	0.10	0.10		3.00		
90 104		Sqm	2	14.00	0.10	0.10	0.10		2.80		
	5th cross Road										
	South to North										
0 15		Sqm	2	15.00	0.10	0.10	0.10		3.00		
15 30		Sqm	2	15.00	0.10	0.10	0.10		3.00		
30 45		Sqm	2	15.00	0.10	0.10	0.10		3.00		
45 60		Sqm	2	15.00	0.10	0.10	0.10		3.00		
60 75		Sqm	2	15.00	0.10	0.10	0.10		3.00		
75 90		Sqm	2	15.00	0.10	0.10	0.10		3.00		
90 105		Sqm	2	15.00	0.10	0.10	0.10		3.00		
105 120		Sqm	2	15.00	0.10	0.10	0.10		3.00		
120 128.4		Sqm	2	8.40	0.10	0.10	0.10		1.68		
	2nd Main 3rd cross Road										
	South to North										
0 15		Sqm	2	15.00	0.10	0.10	0.10		3.00		
15 21.2		Sqm	2	6.20	0.10	0.10	0.10		1.24		

Contractor

Assistant Engineer

Assistant exicutive Engineer

MEASUREMENT SHEET
FIRST AND FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth Avg B	Depth (m)	Quantity	Rate in Rate in RS	Amount in RS.
		2nd cross Road										
		North to South										
0	15											
15	20.4		Sqm	2	15.00	0.10	0.10	0.10				
			Sqm	2	5.40	0.10	0.10	0.10		3.00		
										1.08		
		2nd Main 1st cross Road										
		South to North										
0	15											
15	21.2		Sqm	2	15.00	0.10	0.10	0.10				
			Sqm	2	6.20	0.10	0.10	0.10		3.00		
										1.24		
		4th cross Road										
		South to North										
0	15											
15	30		Sqm	2	15.00	0.10	0.10	0.10				
30	45		Sqm	2	15.00	0.10	0.10	0.10		3.00		
45	60		Sqm	2	15.00	0.10	0.10	0.10		3.00		
60	75		Sqm	2	15.00	0.10	0.10	0.10		3.00		
75	90		Sqm	2	15.00	0.10	0.10	0.10		3.00		
90	105		Sqm	2	15.00	0.10	0.10	0.10		3.00		
105	120		Sqm	2	15.00	0.10	0.10	0.10		3.00		
120	135		Sqm	2	15.00	0.10	0.10	0.10		3.00		
135	147.9		Sqm	2	12.90	0.10	0.10	0.10		3.00		
										2.58		
		3rd cross Road										
		South to North										
0	15		Sqm	2	15.00	0.10	0.10	0.10		3.00		
15	30		Sqm	2	15.00	0.10	0.10	0.10		3.00		
30	45.3		Sqm	2	15.30	0.10	0.10	0.10		3.06		
		Total Executed Quantity								97.68		
		Tender Quantity								81.12		
		Now To be Paid Quantity								97.68		
		Quantity Limited to								81.12	551.56	44743.00
Item no.18		Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. nd as per the directions of the Engineer-in-charge of the work										
			Cum									
		Vide Total executed Quantity from premeasuremet Page no.								635.07		
										635.07		
		Total Executed Quantity								603.62		
		Tender Quantity								635.07		
		Now to be paid Quantity								603.62	85.39	51544.00
		Quantity Limited to										
Item no.19		Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t km nd as per the directions of the Engineer-in-charge of the work										
			tkm									
		Vide Total executed Quantity from premeasuremet Page no.								812.88		
										812.88		
		Total Executed Quantity								772.63		
		Tender Quantity								812.88		
		Now to be paid Quantity								772.63	124.16	95912.00
		Quantity Limited to									Sub Total	6546955.00
											For 13% Applicable (+)T	7056.55.00
											Total Amount	7053900.00

Contactor

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